

Public Page

This project started on 1 December 2004.

The Teletest® long-range guided wave ultrasonic system, supplied by one of the project partners, Plant Integrity Ltd, is being used as the vehicle for development and validation of enhanced pipeline inspection techniques. During this period,

During the Second Quarter, procedures for optimal use of the Teletest technology were identified and tested. A method of focusing was further developed and mathematical modeling was performed to identify wave scattering parameters and to show applicability of the techniques. Models for two-dimensional and three-dimensional defects were also incorporated. Also during the Quarter, experimental trials were initiated to assess the level of improvements made through modeling, procedure optimization and a new approach on focusing and the number of measurement segments around the pipe circumference. Equipment is also being studied for tradeoffs in number of measurements segments, data storage and resolution.

Also during the Second Quarter, NYSEARCH Staff worked with its sponsors and sub-contractors in preparing for the first series of field tests and creating a test environment that is controlled but entirely realistic to industry users' setting. An extensive project, independent from this project, is being carried out for the development and construction of this test bed.

This report addresses project tasks:

Task # 1-A Procedure Optimization

- Start date: 1 December 2004
- Scheduled completion date: 30 April 2005
- Status: Completed

Task #1-C Procedure Validation

- Start date: 1 April 2005
- Scheduled completion date: 30 June 2005
- Status: Initiated and on-target for completion

Task # 2-A Mathematical Modeling

- Start date: 1 December 2004
- Scheduled completion date: 31 August 2005
- Status: On-going

Task # 2-B Experimental Trials

- Start date: 1 May 2005
- Scheduled completion date: 31 December 2005
- Status: On-going

Task # 5-A Equipment Provision

- Start date: 1 April 2005
- Scheduled completion date: 30 November 2006
- Status: On-going

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Task #1-B – NYSEARCH Oversight, Utility Input and Reporting

- Start date: 1 December 2004
- Scheduled completion date: 31 August 2005
- Status: On-going throughout project but captured in other tasks after first (9) mons

Task #1-D - NYSEARCH Planning & Preparation for First Series of Field Tests

- Start date: 1 February 2005
- Scheduled completion date: 30 November 2005
- Status: On-going